



IDC

Abu Dhabi, UAE 2023
In-Person & Virtual (Hybrid)

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INTERNATIONAL DEFENCE CONFERENCE 2023

19TH February 2023
ADNOC Business Center, Abu Dhabi - UAE

CONFERENCE PROGRAMME

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HIS EXCELLENCY MOHAMMED BIN AHMAD AL BOWARDI

MINISTER OF STATE FOR DEFENCE AFFAIRS UNITED ARAB EMIRATES



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Host Venue



INTERNATIONAL DEFENCE CONFERENCE (IDC)

Adaption, Exploration, Transformation: Reimagining Security, Society, and the Human Experience in an age of Disruption

The International Defence Conference (IDC) is an event that introduces new perspectives on and expands the discussion of regional and global defence and security trends, drivers, and challenges.

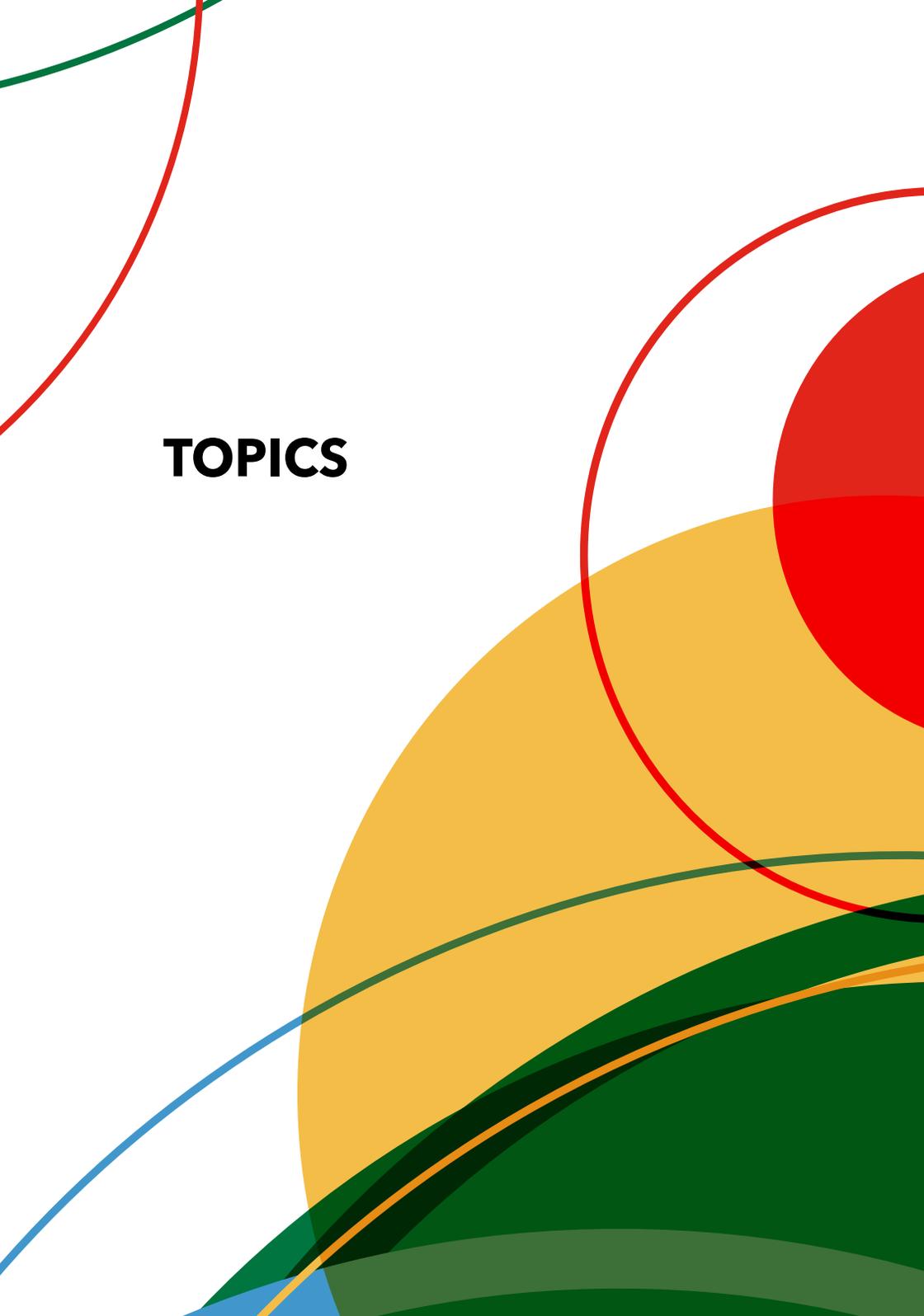
Previous IDC editions were at the “tip of the spear” in investigating the myriad ways the Fourth Industrial Revolution is shaping and would continue to change the nature of the future of conflict and the capabilities required to deter and turn back threats to security, stability, and prosperity. These discussions remain relevant and valuable They are also more common today than when the IDC and IDEX Conference first presented them several years ago.

As a result, and consistent with our objective of expanding the conversation on future security and defence dynamics, IDC 2023 is designed to examine how three intersecting and transformational drivers will change the human experience and what these changes mean for human society and, critically for IDC participants.

CONFERENCE PROGRAMME

19TH FEBRUARY 2023

08:00 - 08:30	Registration and Networking
09:00 - 09:05	National Anthem and Opening Ceremony
09:05 - 09:20	Opening and Inaugural Speech His Excellency Mohammed bin Ahmad Al Bawardi
09:25 - 10:15	Session 1: Promise and Peril H.E. Omar Sultan Al Olama François-Régis Boulvert General John W. Nicholson Jr Roy Donelson Moderator: Matthew Cochran
10:15 - 10:40	Networking Break
10:40 - 11:30	Session 2: Keeping Pace James Anthony Morse CB Robert Khachatryan Hassan Al Hosani Lieutenant General (Ret) Antoine Noguier Moderator: Dr. Anna Dolidze
11:30- 11:55	Networking Break
11:55- 12:45	Session 3: Tech at the Forefront H.E Dong Joon Yoo Vice Admiral Brad Cooper Major Gen. Staff Mubarak Ghafan Aljabri Professor Major General (Ret) Adam Findlay Moderator: Tate Nurkin
12:45- 13:15	Networking Break
13:15- 14:05	Session 4: The Next Frontiers H.E. Salem Butti Al Qubaisi Anna-Karin Rosén Nikos Papatsas Palmer Luckey Moderator: Naoufer Ramoul
14:05- 14:15	Closing Remarks Dr Yehya Al Marzouqi
14:15- 14:30	Awarding Ceremony

The image features a white background with several overlapping, semi-transparent geometric shapes and lines. A large red circle is partially visible on the right side, overlapping a yellow semi-circle. Below these, there are green and blue curved shapes. A thin red line curves from the top left towards the center, and a blue line curves from the bottom left towards the center. The word "TOPICS" is centered in the upper left quadrant.

TOPICS

Promise and Peril: Technology, Human Society, and Human Security

Emerging technologies are changing the human experience. Development in artificial intelligence, biotechnology and neurotechnology, human machine interfaces, extended reality, smart materials, and advanced manufacturing technologies, among others, are creating new economic, social, political, and security dynamics.

These technologies hold the potential to bring game changing efficiencies to all disciplines and industries from defence and security, to transportation, to energy, to healthcare, and beyond. They also can generate new forums and platforms for the demonstration not just of human intelligence, but also human creativity, ingenuity, and empathy as meaningful interaction between humans and machines and the digital world grows. But as governments, industry, individuals, and society more broadly contemplate the opportunities that accompany technological advancement, it is also crucial to better understand the risks. As US President John F Kennedy once said, all technology "has no conscience of its own. The advancement of core emerging technologies, especially AI but the others listed above as well, can create a range of outcomes and incentives that could be harmful to the human experience and the social fabric that binds us. High unemployment is certainly one possible outcome as automated systems take jobs once reserved for humans. Increased inequality is another, as access to advanced technologies and the advantages they bring are unlikely to be even both within countries and between them. Prevailing conceptions of privacy, personal autonomy, intellectual property rights, and even the nature of humanity itself are all likely to be challenged in a future in which the lines between the humans and machines are increasingly blurred. Within the defence and security domains, the incorporation of novel technologies is creating ethical dilemmas and risks that have moved from the theoretical to the actual. Drone swarms, lethal autonomous systems, AI enabled targeting, bio and neurotechnological enhanced humans are either being deployed or developed. Further development and use of these technologies is also placing enormous pressure on human operators by speeding up the pace of conflict and of data collection and processing, exceeding the limits of human cognitive capacity. The list of disruptive impacts in creating new threats, opportunities, and requirements is long both in the creation of new threats and in the enablement of tools to meet these threats and capitalize on these opportunities. Across these economic, social, political, and defence and security related transformations, there is a consistent need to develop means of ensuring persistent human control of technologies. Simply not developing AI and other emerging technologies as a means of avoiding potential risks is not a realistic option. Proceeding in development, then, must be accompanied by a nuanced and complete understanding of the risks these technologies entail should humans lose control of the technologies they have developed.

New standards and norms for how these technologies are developed and deployed, improved testing and evaluation, and enhanced monitoring of diffusion, among other steps may be required to ensure new technologies can serve humans and keep humans and humanity at the centre of social, economic, political, and defence and security focused activities. To begin the International Defence Conference 2023 (IDC 2023) our opening panel will seek to explore and bound the discussion of the opportunities and challenges of the development, deployment, and use of 4th IR technologies and the transformative capabilities they enable. It will have a particular focus on the implications for defence and security communities in terms of new threats to human security and the requirements that advanced technology adoption will bring. The panel will also discuss means of maintaining control of technological development and managing risks of technology deployment.



Keeping Pace: The Future of Talent Development and Human Capital

The introduction of new technologies will reshape the methods and focus areas of talent development. Human tasks involvement in some tasks will be replaced, but in other situations humans will be required to work alongside robots or to incorporate technology more completely into their day to day or week to week activities. From the manufacturing floor to C suites from the design lab to the battlefield, training talent development, and human capital management will need to adjust to this new reality and to ensure that humans are best equipped to operate efficiently in a world in which humans will be more frequently operating alongside and in conjunction with machines. And this change in approaches and mentalities will need to be enacted at multiple levels. At a strategic level, leaders in industry, government, and defence and security communities will need to more deeply engrain the idea that their people their human capital is a valuable strategic asset.

This acknowledgement will have knock on effects for the human resources practices and personnel required to recruit and retain talent at all levels of an organization. In competitive talent recruitment and retention environments, organizations will need to be creative to ensure the right people are effectively incentivized to stay, whether it be through effective training, career development opportunities, inclusion and diversity initiatives, or compensation. All these areas are likely to be critical to building a resilient workforce that can adapt to the dynamic workplace of the future. This is an especially important dilemma for defence and security communities that are increasingly competing with private industry for technologically savvy uniform and civilian talent to help further the transformation of their forces and operations. Even more importantly, though, the introduction of new technologies across most industries and disciplines will change the nature of skills, competencies, and mentalities required to succeed in a modern work environment. Familiarity with data, facility in operating robots and extended reality headsets, the ability to operate and manipulate items in digital worlds, and trust in AI are all growing priorities for workforces across every industry, including agriculture where AI enabled farm monitoring and self-driving tractors are now being employed by farmers around the world In the defence and security space the need for new approaches to training and talent management is as urgent as it is anywhere else.

The future of military operations will be characterized by the prominent use of human machine teams and human control of potentially swarms of unscrewed systems. In this environment, the skillset required for the future could place cognitive competencies such as mission management, task prioritization, and decision making or even video game playing over the physical competencies usually associated with military and security operators.

Similarly, as mixed reality is incorporated more into training and operations, the ability to navigate effectively in a digital environment will also become more relevant. The list of new and enhanced competencies goes on.

This panel will investigate the impacts of technology development on human capital development and talent management both generally and for defence and security communities both regionally and globally.

Tech at the forefront - the development of 4IR technologies is having significant impact on the nature of conflict, one that will intensify as both the technologies & the operational concepts for their use develop & Mature

The development of Fourth Industrial Revolution (4IR) technologies is having a significant impact on the nature of conflict, one that will intensify as both the technologies themselves and operational concepts for their use develop and mature. Perhaps the most significant technological driver of the future of conflict—both kinetic and non-kinetic—is the integration of AI and supporting technologies into most aspects of military operations and activities—from the tip of the spear to information operations to the back office.

This “intelligentization” of conflict will have widespread implications, notably speeding up critical processes and creating a burgeoning requirement for human-machine teams that can carry out tasks and missions that neither one could carry out individually. The resulting gradual blurring of the lines between human and machine activities and capabilities will be an interesting development to watch over coming years and decades.

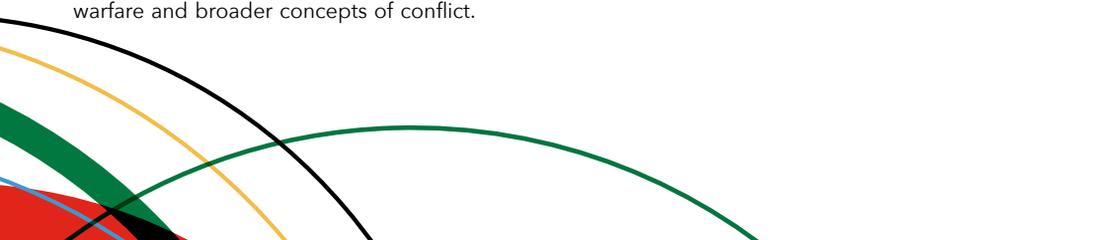
Artificial intelligence / machine learning is not the only technology changing the dimensions and, crucially, pace of conflict. Nor is intelligentization the only important development or outcome. Pervasive development and deployment of power-hungry systems, such as near ubiquitous sensors, advanced communications and electronic warfare equipment, uncrewed systems, edge computing, directed energy weapons, and other advanced emerging capabilities is generating a need for more reliable access to power and potentially the electrification of future combat operations.

Emerging technologies and the advanced, sometimes semi-automated, capabilities these technologies are also speeding up and reducing the costs of critical processes that will help shape operational readiness and capacity. Beyond massively accelerating information processing, the convergence of 4IR technologies is also creating efficiencies in training, manufacturing, logistics, and cyber conflict. Militaries are also now increasingly placing a premium on new solutions that will enhance precision, range, agility, and flexibility of force structures to meet and deter an expanding range of possible crises, contingencies, and conflicts.

The impact of technology is not limited to kinetic warfare or to the traditional domains of land, air, and sea—both surface and undersea. Novel technologies and the more pronounced involvement of commercial companies and applied research institutes in the defence and national security sector is also opening up new competitions and sub-threshold conflicts in the cyber domain as well as the electromagnetic spectrum and in space. The link between commercial, civil, and national security interests and operations in space is especially strong and significant, as the current conflict in Ukraine has demonstrated.

In addition, more attention is being dedicated to understanding the competition in the “cognitive domain.” Emphasis is being placed on using 4IR technologies to drive, disseminate, and target information operations designed to shape the priorities and perspectives of polities and societies and influence political, geopolitical, and national security decision-making.

These are just a few of the emerging characteristics of the future fight and future conflict more broadly. This panel will investigate how the increasing development and deployment AI, advanced manufacturing, quantum science, robotics, mixed reality, neuro- and bio-science, smart sensors and materials, new energies and propulsion systems, and many others are shaping the future of both kinetic warfare and broader concepts of conflict.



The Next Frontiers: The Future of Expanding Human Presence and Activity in Space

Increased human presence and activity in and exploration of space, the digital world, and possibly other domains will also affect the future of the human experience and create both risks and opportunities for human society and security. Human activity in space has increased significantly in the 21st century as more countries and companies pursue the economic, scientific, geopolitical, and defence and security benefits that space presence provides. Over the next several decades, it is possible even likely that humans will have a permanent presence in space through more on orbit crewed habitats, moon bases, and even bases or outposts on Mars or other celestial bodies.

Much technological development will be required to achieve these objectives, but multiple competing efforts are underway to land humans back on the moon by the middle of the decade after five decades away. Moreover, Global Navigation Satellite Systems (communications, and earth observation satellites are essential to supporting human social and economic activities on earth, natural disaster response, and to the global economy. Indeed, among the most pressing challenges and risks facing the more robust tether between humans on earth and satellites in space is that space has become more congested, complicating the task of space traffic management. This is especially so in Low Earth Orbit (where several companies and governments are building constellations of thousands of small satellites to speed the transfer of data and bring wireless communications to underserved parts of the world. Another risk facing humans on both earth and in space is the growing competition between countries and companies in space competition that could lead to conflict on either earth or in space.

This competition will take many forms. For example, demand for minerals from the moon or elsewhere will drive competing national and corporate efforts to extract them. Competition in space also has a more explicitly defence and security component. The domain has become central to the future of military operations driving militaries to simultaneously build more robust space-based infrastructures as well as the capabilities to hold other militaries' architectures at risk. Burgeoning human activity in the digital domain also will change the nature of human society and produce new risks of intense concern to defence and security communities.

As with space, the activity in the digital domain is diverse, ranging from the use of extended reality to enhance training including military training to crypto currencies, to the increasing popularity of massive, multi-player online role playing games (and beyond The popularity of MMOPRS offers a particularly useful example of the ways in which the digital world can change the human experience, offering a means for humans to live one life in the real world and one very different one in the digital world with real implications for social cohesion, not to mention for security.

Law enforcement and security communities are already reporting the proliferation of crimes of harassment, planning of terrorist attacks, money laundering, exploitation, and cyber threats. This panel will explore the implications of human exploration in space, the digital world, and potentially elsewhere for human society and security.



Unleash the power of AI, Big Data Analytics and Cloud Computing

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G42 is an Abu Dhabi-based technology holding company, leader in the development and deployment of cutting-edge artificial intelligence solutions, Big Data and Cloud Computing solutions.

Through its portfolio companies, G42 offers AI-powered end-to-end services and products to its customers in the public and private sectors, enabling true commercial and societal impact.

To know more visit www.g42.ai

**Exponential Possibilities.
Today.**

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SPEAKERS BIOGRAPHIES

BIOGRAPHY



H.E. MOHAMMED BIN AHMAD AL BOWARDI

Minister of State for Defence Affairs
UAE

H.E. Al Bowardi holds a number of positions in the UAE public and private sectors. He has been appointed as Minister of State for Defence Affairs on 14th Feb 2016.

In addition to his role, he is a board member of Mubadala Investment Company and Tawazun Holding, and Vice Chairman of Dolphin Energy Limited. He is also Chairman of the Committee for Developing and Implementing the Water and Agriculture Strategy for Abu Dhabi.

Furthermore, H.E. Al Bowardi is Managing Director and board member of the Environment Agency-Abu Dhabi, Deputy Chairman of the Mohamed bin Zayed Species Conservation Fund and the International Fund for Houbara Conservation- Abu Dhabi, and a member of the Board of Trustees of Abu Dhabi University (ADU).

H.E. Al Bowardi has previously held the positions of Undersecretary of the Ministry of Defence, Secretary-General of the General Secretariat of the Abu Dhabi Executive Council and Chairman of the Executive Committee.

He has a degree in History and Political Science from Lewis & Clark College, USA.

BIOGRAPHY



JAMES ANTHONY MORSE CB

Rabdan Academy President

James was appointed as the President of Rabdan Academy, Abu Dhabi, in August 2016.

Prior to Rabdan Academy, James had a most successful 34 year career in the UK Royal Navy, leaving in the rank of Rear Admiral from the Navy Board role of Assistant Chief of Naval Staff (Capability), Controller of the Navy and Chief of Staff of Navy HQ. He served in a spectrum of ships, from Patrol Craft to Aircraft Carrier, and commanded 4ships. He also commanded the UK Task Group, deploying to the Gulf, and has been based in Washington DC as the UK Chief of Defence Staff's Liaison Officer to the Chairman of the US Joint Chiefs of Staff. He has sailed many of the World's oceans during his career, taking part in operations and exercises across the globe, but with a strong bias to the Middle East and South Atlantic.

He held a number of key appointments ashore, including as the Assistant to the First Sea Lord and the MoD's Director Force Development, as well as running a number of change programmes. As a Rear Admiral he was Commandant of The Joint Services Command and Staff College (JSCSC) and Director General of the UK Defence Academy. He holds a BSc in Mechanical Engineering from Bristol University and an MA in International Relations from King's College London. He is a graduate of the Higher Command and Staff Course at JSCSC and the Royal College of Defence Studies in London, and has a Diploma in Company Direction from the Institute of Directors. He was appointed by Her Majesty The Queen as a Companion in the Most Honourable Order of the Bath in the New Year's Honours 2016.

BIOGRAPHY



H.E. OMAR SULTAN AL OLAMA

Minister of State for Artificial Intelligence, Digital Economy and Remote Work Applications
UAE

His Excellency Omar Sultan Al Olama has been appointed as Minister of State for Artificial Intelligence following the Cabinet reshuffle in October 2017. His Excellency was appointed as Minister of State for Artificial Intelligence, Digital Economy and Remote Work Applications in July 2020. His responsibilities include enhancing the government performance by investing in the latest technologies and tools of artificial intelligence and applying them in various sectors.

His Excellency Omar Sultan Al Olama is currently the Managing Director of the World Government Summit. He is also a member of the Board of Trustees of Dubai Future Foundation and Deputy Managing Director of the Foundation. In November 2017, the UAE government announced selecting HE. Omar Al Olama as a member of the Future of Digital Economy and Society Council at the World Economic Forum.

During his work in the Future Department at the Ministry of Cabinet Affairs and the Future, His Excellency participated in developing the UAE Centennial 2071 strategy that aims to position the UAE as the best country in the world. He also participated in developing the UAE 4th Industrial Revolution Strategy that aims to promote the UAE's status as a global hub for the 4th Industrial Revolution and develop a national economy based on knowledge, innovation and future technologies. Prior to his appointment, His Excellency worked on developing the UAE's Artificial Intelligence Strategy, making it the first such strategy of its kind globally.

His Excellency Omar Sultan Al Olama worked in several sectors including the banking sector, telecommunications, private enterprises and government. H.E. also worked on developing and executing strategies, risk analysis, change management and scenario planning.

His Excellency Omar Sultan Al Olama holds a Diploma in Project Management and Excellence from the American University of Sharjah and a Bachelor of Business Administration from the American University.

BIOGRAPHY



FRANÇOIS-RÉGIS BOULVERT

International Scientific Cooperation Director
Naval Group

François-Régis Boulvert is an Engineer, Naval Architect, and a Scientist as well as an experienced Manager. He graduated from ENSTA Bretagne 1990, from University of Nantes in 1996 and from Paris 1 Panthéon-Sorbonne for a Master 2 in administrative law in 2010.

He started his career in 1990 at Direction des Constructions Navales (DCN) in Brest. He was in charge of weapons systems Integration and Maintenance for launcher submarines.

In 1995, he realized training for defense naval specialist. He consulted, engaged and cooperated with universities and industries. Then, he opened offshore courses in ENSTA BRETAGNE and developed new training courses and Research with various Universities. He did his research on welded material structure at Nantes University.

In 1997, he became the Naval Architect of the tripartite (France, United Kingdom and Italy) Horizon frigate in London. He led and monitored progress of subject matter experts working group.

In 1999, he joined Paris to organize work and prepare contract for the IT-Fr Horizon program as the governmental naval architect of the frigate.

In 2001, he became Deputy Defense Equipment attaché in London Embassy.

In 2004, he joined DGA Information superiority near Rennes to become cooperation focal point of this Research Center, which is specialized in Communications and information systems, C4ISR, Electronic warfare and Cyber.

In 2010, he became head of sensors and EW division with 130 people under his leadership.

In 2014, he joined NATO Transformation Center in Norfolk Virginia. He launched the Federated Mission Networking (FMN) program, FMN which gathers today 36 nations and is the reference for all the interoperability in coalition.

In September 2017, DGA called him back to become Deputy Director of Australian Future Submarine Export program in Cherbourg, where he coordinated governmental actions and led the installation of Australian Office in Cherbourg.

In summer 2018, he joined NAVAL GROUP as international scientific cooperation director. He is based in TECHNOCAMPUS OCEAN in Nantes where is located the Headquarter of the Innovation and expertise directorate of NAVAL GROUP. He is in charge of the internationalization of the Research and Development of the Group. In particular, he coordinated the creation and structuration of Naval Group R&D Center of Excellence in Singapore, Adelaide and Brussels. In Australia he coordinated for Naval Group the creation of the International Research Lab Crossing with CNRS and 4 Universities. In addition, he contributes to European Cooperation in the Naval Defense domain and confirmed in 2021 the bilateral agreement with KACST (Saudi Arabia). He is Knight of the National Order of Merit and Knight of the Légion d'Honneur.

BIOGRAPHY



JOHN W. NICHOLSON JR.

Retired U.S. Army General
Chief Executive
Lockheed Martin Middle East

Retired U.S. Army General John Nicholson is the Chief Executive for Lockheed Martin in the Middle East and was appointed in December 2021. Residing in Abu Dhabi, he is responsible for the company's strategy, operations, and growth in the UAE, Kuwait, Jordan, Bahrain, Qatar, Oman, Iraq, Lebanon and Pakistan.

General Nicholson last served as the Commander of all U.S. Forces and the 41 nation NATO-led Coalition in Afghanistan from 2016 to 2018. Before that, he served as Commander of NATO's Allied Land Command and Commanding General of the 82nd Airborne Division. Commissioned in 1982, he served as an infantry officer at all levels with over six years in combat. He lived in Europe and the Middle East for more than twelve years, forging close relationships with security leaders in those regions.

Following retirement from active duty in November 2018, he became the President of the Pentagon Federal Credit Union Foundation supporting post 9-11 combat veterans, service members, caregivers, and their families. The foundation created an educational program and venture capital fund which trained and invested in veteran entrepreneurs. He has been a mentor to U.S. general officers through the U.S. National Defense University and to NATO flag officers through the NATO Senior Mentor Program. He is a member of the Harvard's Belfer Center Elbe Group which has maintained a track two dialogue between retired Russian and American senior officials.

He has previously been an adjunct faculty member in Harvard's John F. Kennedy School Senior Executives in National and International Security Program.

General Nicholson holds Bachelor's Degrees from the United States Military Academy and Georgetown University and Master's Degrees from the School for Advanced Military Studies and the National Defense University as well as two honorary doctorate degrees.

BIOGRAPHY**ROY DONELSON**

Chief Executive
Raytheon MENA

Roy Donelson is chief executive of Raytheon Middle East and North Africa (MENA) Group. He is responsible for the operations of Raytheon Defense subsidiaries and country offices, program execution and the delivery of advanced sensor to effects solutions for our customers in this region.

Prior to his role in the Middle East, he was executive director and product area director of Strategic Engagement Systems, Strategic Missile Defense for Raytheon Missiles & Defense, a business of Raytheon Technologies, leading a program portfolio of effectors, counter hypersonic programs and related advanced missile defense technologies.

Donelson was also strategic and missile defense systems portfolio director, overseeing SM-3® and kill vehicle programs and previously served as the managing director for the Raytheon UK Defense mission area and program director of Tomahawk missile programs for the former Raytheon Company Missile Systems business. Before Raytheon Technologies, he was a senior consultant in system architecture and systems engineering at Booz, Allen & Hamilton. Donelson also served as a military intelligence officer in the U.S. Army, attaining the rank of captain.

Donelson holds a Bachelor of Science degree in engineering from the United States Military Academy at West Point, New York, and a Master of Business Administration from the University of Phoenix.



BIOGRAPHY**ROBERT KACHATRYAN**

Minister of High-Tech Industry
Armenia

Since April, 2022 - Minister of High-Tech Industry of Armenia

October 2021 - April, 2022 - Deputy Minister of High-Tech Industry of Armenia

2014 - 2021 – Director at “Simartek Integration Solutions” CJSC (production of electric switchboard panels),

2011 - 2013 – Commercial Director at “Astra Crystals” CJSC (synthetic sapphire growing)

2008 - 2013 – Junior researcher at Institute for Informatics and Automation Problems of NAS RA

2007 - 2016 – Assistant to the Director, Deputy Director, Director at “Simartek” CJSC (official partner of Siemens AG and Schneider-Electric companies in Armenia, supplier of power distribution solutions, renewable energy and industrial process automation)

2001 - 2004 – MTD Group CJSC (official partner of Fujitsu Siemens, Siemens AG and Apple IMC in Armenia), participation in a number of IT projects.

BIOGRAPHY



LIEUTENANT GENERAL (RET) ANTOINE NOGUIER

Head of Strategy
Airbus Defence and Space

Lieutenant General (Ret) Antoine Noguier has been appointed Military Advisor to the CEO as of January 1st, 2023. He remains a member of the Airbus Defence and Space Executive Committee. Prior to that, Noguier was Head of Strategy for the division, starting in October 2015, and instrumental into shaping the Future Combat Air System programme.

Previously, Noguier was in charge of Strategic International Relations within the Corporate Strategy and Marketing organisation. In his role, he was in charge of promoting and supporting defence and security businesses strategic to the former Airbus Group, especially in export markets, as well as contributing to define future defence capabilities.

Before joining Airbus in 2014, he worked in the French Air Force. His military education started with an aeronautical engineering degree in 1980 at the Air Force Academy, before graduating from the UK Joint War College in 1999 and the NATO Defence College in 2001.

He is an experienced fighter pilot with 3,200 flight hours in combat aircraft (Mirage F1 and Mirage 2000) for military operations in Africa and the Middle East. From 2002 to 2006 he worked for NATO in Brussels, first as a member of the international military staff, then as Special Assistant to the Chairman of the NATO Military Committee and Private Office of the NATO Secretary General.

In 2006, he was selected as Military Air Advisor to the President of the French Republic under both Jacques Chirac and Nicolas Sarkozy in the Elysée Palace. From 2011, he was Commander Air Defence and Air Operations Command (Air Force Paris) and from 2012 served as Head of the Military Office of Defence for Minister Jean-Yves Le Drian.

Noguier is married and lives with his family in Paris. He is a Commander of the Legion of Honour and an Officer of the National Order of Merit. In his free time he likes outdoor sporting activities and reading history and politics.

BIOGRAPHY



HASSAN AL HOSANI

CEO
Bayanat (G42)

Hasan Al Hosani is a technology and business leader with over 20 years of experience. As the CEO of Bayanat, Hasan spearheads the development of the Company's expansion into the Geospatial AI domain. In keeping with Bayanat's ambitious business strategy, he oversees product and service portfolio performance whilst unlocking compelling opportunities in high-growth attractive markets.

Prior to joining Bayanat, Hasan was a key contributor to G42's strategic growth, working with the merger and acquisition team, where he played an instrumental role in the Company's transition from EDIC to G42.

In 2016, Hasan co-founded SECURIA, delivering cutting-edge technology solutions to both the public and the private sectors, and marketing and consulting services to international firms looking to enter the UAE market for Smart Cities, AI, and Big Data. Four years later, SECURIA had achieved a clear market leadership position, becoming one of the most respected and sought-after security consultation firms in the GCC region.

Previously, Hasan was a founding member of the Abu Dhabi Monitoring and Control Center (ADMCC), a national security firm providing management and regulation of the UAE's monitoring and control systems, and critical analysis of data. During his tenure with ADMCC, he served as a Member of the MCC Executive Committee, and Head of the MCC Standards and Practices Committee.

Hasan also served in various leadership positions with Advanced Integrated Systems (AIS/ATS), where he oversaw the successful deployment of Abu Dhabi's multi-billion-dirham Smart City Solution. Hasan holds a Master's degree in Business Administration, and Bachelor of Science in Electrical / Electronic Engineering, and is currently working towards his PhD.

BIOGRAPHY



VICE ADMIRAL BRAD COOPER

Commander of U.S. Naval Forces Central Command

Vice Adm. Brad Cooper is the son of a career Army Officer. He is a 1989 graduate of the U.S. Naval Academy, and earned a master's degree in Strategic Intelligence from the National Intelligence University. He has also studied national security policy and international relations at Harvard and Tufts Universities.

A career surface warfare officer, he served on guided-missile cruisers, guided-missile destroyers, aircraft carriers and amphibious assault ships. His ship commands include USS Russell (DDG 59) and USS Gettysburg (CG 64).

Ashore, he served in a variety of executive, military assistant and special assistant roles in the White House, the Office of the Secretary of Defense, U.S. Africa Command and U.S. Pacific Fleet headquarters. He also served as principal U.S. Advisor to the Interior Minister of Afghanistan and Director, Surface Warfare Officer assignments (Pers-41).

As a flag officer, he served as the chief of Legislative Affairs, where he led the Navy's engagement with the U.S. Congress. Other tours include commander, Naval Surface Force Atlantic, where he launched new initiatives to expand mental health care access for Sailors and improve fleet-wide readiness; commander, Expeditionary Strike Group 7 in Okinawa, Japan, where he led the U.S. military's first F-35 deployment; and, commander, U.S. Naval Forces Korea. During this tour, his Sailors were honored with the Republic of Korea Presidential Unit Citation, the first such recognition of a Navy unit since the Korean War.

Cooper is a recipient of the Admiral Elmo Zumwalt Award for Visionary Leadership.

He is particularly proud of the extraordinary men and women with whom he has served at sea and ashore all around the world. Together, these exceptional teams earned 11 unit citations and 10 "Battle E" awards for excellence. His amazing Sailors on USS Gettysburg earned the Battenberg Cup as the best ship, submarine or aircraft carrier in the Navy's Atlantic Fleet, as well as recognition for the top workforce development program in the U.S. government.

BIOGRAPHY**H.E DONG JOON YOO**

Deputy Minister of Military Force and Resource Management
Republic of Korea

Deputy Minister Dong Joon Yoo is a graduate of Korea University, with a Bachelor's degree in Engineering. He later earned a Master's Degree and PhD in Construction Environment Engineering at Korea Advanced Institute of Science and Technology (KAIST).

His key assignments at the Republic of Korea Ministry of National Defense start as Deputy Director, for roles such as Installations Planning and USFK Base Relocation. In 2015, he was promoted to Director of Installations Planning, and again to Director General roles such as Programming & Budgeting and Military Installations Planning.

Most recently, he took the position as Deputy Minister of Military Force and Resources Management in 2021.

BIOGRAPHY



MAJOR GEN. STAFF MUBARAK GHAFAN ALJABRI

AUSEC for Support and Defence Industries
Ministry of Defence

Major General Dr. Mubarak Saeed Ghafan Al Jabri was appointed Assistant Undersecretary for Support and Defence Industries within the Ministry of Defence of the United Arab Emirates in March 2020.

He leads the Ministry's engagement with Defence industries, and in particular research and development organizations, to support the generation and delivery of military capability. He also leads the Armed Forces' contribution to the development of the Defence industry ecosystem of the United Arab Emirates, accelerating innovation to ensure military capabilities benefit from the latest technological advancements. He is responsible for the procurement of equipment, goods and supplies, and services including equipment and support, and for the provision of fit-for-purpose, safe and robust facilities and infrastructure services for the UAE Armed Forces.

Major General Dr. Mubarak is a recognized senior leader in UAE national defence with extensive higher level defence strategy, management, and planning, international, operational and command experience. His distinguished military career spans more than 30 years, during which time he has served in a number of strategic and operational leadership roles, in-country and internationally.

Over the past years, he has been entrusted by UAE leadership with a comprehensive modernization program for the continuous improvement of the UAE Armed Forces. The program drove change across the Armed Forces and established an integrated and modernized Defence that delivers greater military capability. It also established and launched the UAE Joint Operations Command.

Major General Dr. Mubarak has been awarded many decorations and medals from the Armed Forces of the United Arab Emirates in appreciation of his efforts and in honor of his actions. He has also been honored with a medal from the North Atlantic Treaty Organization (NATO), and received a bronze star medal from the President of the United States of America.

Major General Dr. Mubarak holds both a doctorate and master's degree, in the field of laser technology, from Cranfield University (UK). He also holds a Master of Strategic and Security Studies from the National Defence College (UAE), and a Bachelor of Electrical Engineering with Honors from George Washington University (USA). He graduated from Zayed Military College as first in his class and was awarded the Sword of Honor.

BIOGRAPHY



**MAJOR GENERAL (RETIRED)
PROFESSOR ADAM FINDLAY, AO**

Professor of Practice, Defence and Regional Security, Founding Director
Griffith University Defence Network (GDNet)

Professor Adam Findlay is the Professor of Practice, Defence and Regional Security and is Founding Director of the Griffith University Defence Network (GDNet). He links Griffith University's researchers and educators with the Department of Defence, Defence Industry and other universities to enhance national security capability development. He also lectures on leadership, organisational transformation, and geo-strategic security of the Indo-Pacific region.

He recently retired from the Army as a Major General with 37 years of military experience and has served in major military campaigns in East Timor, Iraq, Afghanistan and Southeast Asia. He continues part-time military service as a Strategic Advisor and Senior Mentor to a range of senior commanders across in the Australian Defence Force. He has built key international security relationship across the Indo-Pacific and has worked extensively with many regional security leaders on countering terrorism.

From 2017-2020 he was the Special Operations Commander for Australia responsible for all high-readiness special operations, where he also initiated significant organisational transformation and cultural reform. From 2016 to 2017 he commanded all coalition special forces in Iraq, culminating in the liberation of Mosul in 2017.

Professor Findlay was awarded his PhD from the University of New South Wales in 2014 and has studied as a Visiting Fellow at the University of Oxford and completed the Advanced Management Program at the Harvard Business School. In the 2021 Queen's Birthday Honour's List he was appointed as an Officer (AO) of the Order of Australia. He has also been awarded the French Chevalier de la Legion d'Honneur for enhancing the relationship between French and Australian Special Forces, and the US Legion of Merit for exceptionally meritorious command of the Special Operations Joint Task Force - Iraq.



BIOGRAPHY



ANNA-KARIN ROSÉN

CEO
SAAB, UAE

Anna-Karin Rosén is the CEO of Saab in the UAE, including Saab's development and production entity Saab Ltd as well as the Joint Venture Saab Middle East LLC. Anna moved to Abu Dhabi in October 2017 for the position of Offset Program Director UAE.

Before starting her Saab career in 1999, Anna worked briefly as a civilian in the Swedish Air Force and spent four years in Washington DC as a diplomat. She then worked for 12 years in the Aeronautics' development and engineering departments, specializing in System Safety & Reliability for fighter aircraft. In 2011, Anna moved with her family to Bangkok where she held the position of Country Manager Thailand for Saab Aeronautics. This was followed in 2014 with a Marketing & Sales position as Head of Gripen for Market Area Middle East & Africa, based in Pretoria, South Africa.

Anna has attained university degrees in Mechanical Engineering (MSc), Business Administration (BSc) and HTO (BSc; Human, Technology, Organisation). She is married to Hans and they have three daughters.

BIOGRAPHY



HE SALEM BUTTI AL QUBAIS

Director General
UAE Space Agency

His Excellency Salem Butti Salem Al Qubaisi occupies the position of Director General at the Emirates Space Agency, and has more than 20 years of accumulated leadership experience in the fields of military aviation and defense in the public and private sectors. He is responsible for defining the strategic direction of the agency, the success of its mission based on promoting the development of the national space sector and contributing to achieving the country's vision of continuing sustainable economic growth based on knowledge and innovation.

Al Qubaisi was appointed Director General of the Emirates Space Agency in September 2021, after he had been a member of the Board of Directors since 2018, where he was - with members of the Council - strategically supervising the agency's plans and projects.

Among the previous experiences of His Excellency Salem Al Qubaisi, membership of the Board of Directors of the Monitoring and Control Center in Abu Dhabi since 2016, in addition to 5 years of membership in the National Committee for International Humanitarian Law of the Ministry of Foreign Affairs and International Cooperation. Between 2011 and 2013, Al Qubaisi headed the Nuclear Security Department at the Federal Authority for Nuclear Regulation, setting up relevant regulations and overseeing licensing of commercial companies dealing with nuclear and radioactive materials.

Within his experience in the private sector, Salem Al Qubaisi held the position of Technical Program Manager for the Ministry of Defense at the US Aerospace Corporation (Lockheed Martin) for five years, where he managed the development of avionics, radar, weapons and technology-based targeting systems between 1999 and 2005.

Al Qubaisi holds a Bachelor's degree in Electrical and Electronic Engineering from California State University - Sacramento, and a Master's degree in Electrical Engineering from the University of Texas - Arlington. He is also a graduate with honors from the National Defense College in Abu Dhabi, and holds a master's degree in strategic and security studies.



BIOGRAPHY



NIKOLAOS PAPTASAS

Senior Partner
EFA Group Partner

Nikolaos Papatsas graduated from the College of Wooster (Ohio, USA) with a degree in Computer Science (1982) and received an M.B.A. (1984) from Clark University (Massachusetts, USA). From 1984-89 he was Director of Information Technology (IT) Systems for Aspen Square Management, a National Real Estate and Property Management firm, located in Springfield (MA).

In 1990-93 he served as Vice President of Operations and IT for Asahi/America, a manufacturer and international distributor of industrial products, based in Boston. During the same period, he worked as a technical consultant offering his services to telecommunication and financial organizations.

In 1993, Mr. Papatsas joined EFA VENTURES, (www.efaventures.com) based in Athens, Greece, and shortly after became a partner. Today, EFA VENTURES, part of EFA GROUP (an ecosystem of A&D companies with physical presence in 6 countries), is an International Industrial Development Services Provider with experience in more than 40 countries, offering a range of specialized services in industrial participation, logistics and systems integration for the Aerospace & Defense, Security and High Technology markets.

Mr. Papatsas has extensive experience in Aerospace and Defense technologies as well as industrial cooperation programs. From May 2021, he is also the President of the Hellenic Aerospace Security & Defense Industries Group (www.hasdig.com.gr).

BIOGRAPHY



PALMER LUCKEY

Founder/Inventor, Oculus VR, Anduril Industries
USA

Palmer Luckey is an American inventor, innovator, and entrepreneur. He is the Founder of defense technology company Anduril Industries, designer of the Oculus Rift, a virtual reality head-mounted display, and the Founder of Oculus VR, which was acquired by Facebook in 2014 for \$2.3b.

Palmer founded Anduril Industries in 2017 to radically transform the defense capabilities of the United States and its allies by fusing artificial intelligence with the latest hardware advancements. At Anduril, Palmer integrates a consumer technology business model with mission-driven objectives, enabling rapid product development and deployment, setting the company apart from other players in the defense industry.

His deep interest in defense technology was driven by his time at the USC ICT MxR lab, where he built hardware used to research immersive PTSD treatment for US veterans. He continued to support various military applications of VR during his time at Oculus, informing his belief that radical modernization of US military technology is a prerequisite for preserving our way of life. Palmer began attending Golden West College and Long Beach City College at the age

BIOGRAPHY



DR YEHYA AL MARZOUQI

Advisor, CEO Office
Tawazun Economic Council

Dr Yehya Al Marzouqi joined Tawazun in 2009 after working in Abu Dhabi Company for Onshore Oil Operations (ADCO), for over 16 years. Prior to that, he had worked in Resources Centre in a major bank in the USA. At Tawazun, he has led various people development initiatives such as:

- Leadership Development Program
- Establishment of MBA in Manufacturing Excellence
- Integration of Female Emirati National in manufacturing
- Facilitating the process of articulating vision, mission and values for the organization
- Conducting various people development workshops for senior staff
- Attracting and enticing young Emirati National to pursue their education in STEM-C (Science, Technology, Engineering, Math and Coding)
- Supporting SMEs and Facilitating projects from lab to market

Dr Yehya served on the Executive Committee of Tawteen Program and later as a Chairman of the Executive Committee. He also serves as:

- Board Member of Wall Street Financial Institution
- Member of the Executive Board of UAE University, College of Business and Economy.
- Member of the Evaluation and Assessment Executive Committee of Ministry of Interior's Quality Award.
- Member of the Committee for the establishment of business incubator.
- Member of the executive judging panel for Federal Authority for Government Human Resources.
- Chairman of the board of Business and Economy at Hamdan Bin Mohammed Smart University
- Member of the Program Advisory Committee at ADVETI

He has co-authored articles that were published in the National HRD Journal and American Society for Training and Development (ASTD) publication. Dr Yehya has participated as a keynote speaker in local and international conferences. Dr Yehya has completed his undergraduate and graduate studies in the USA and has obtained his Doctorate Degree from the Bradford University in the UK. He is currently an advisor in CEO's office at Tawazun Economic Council.

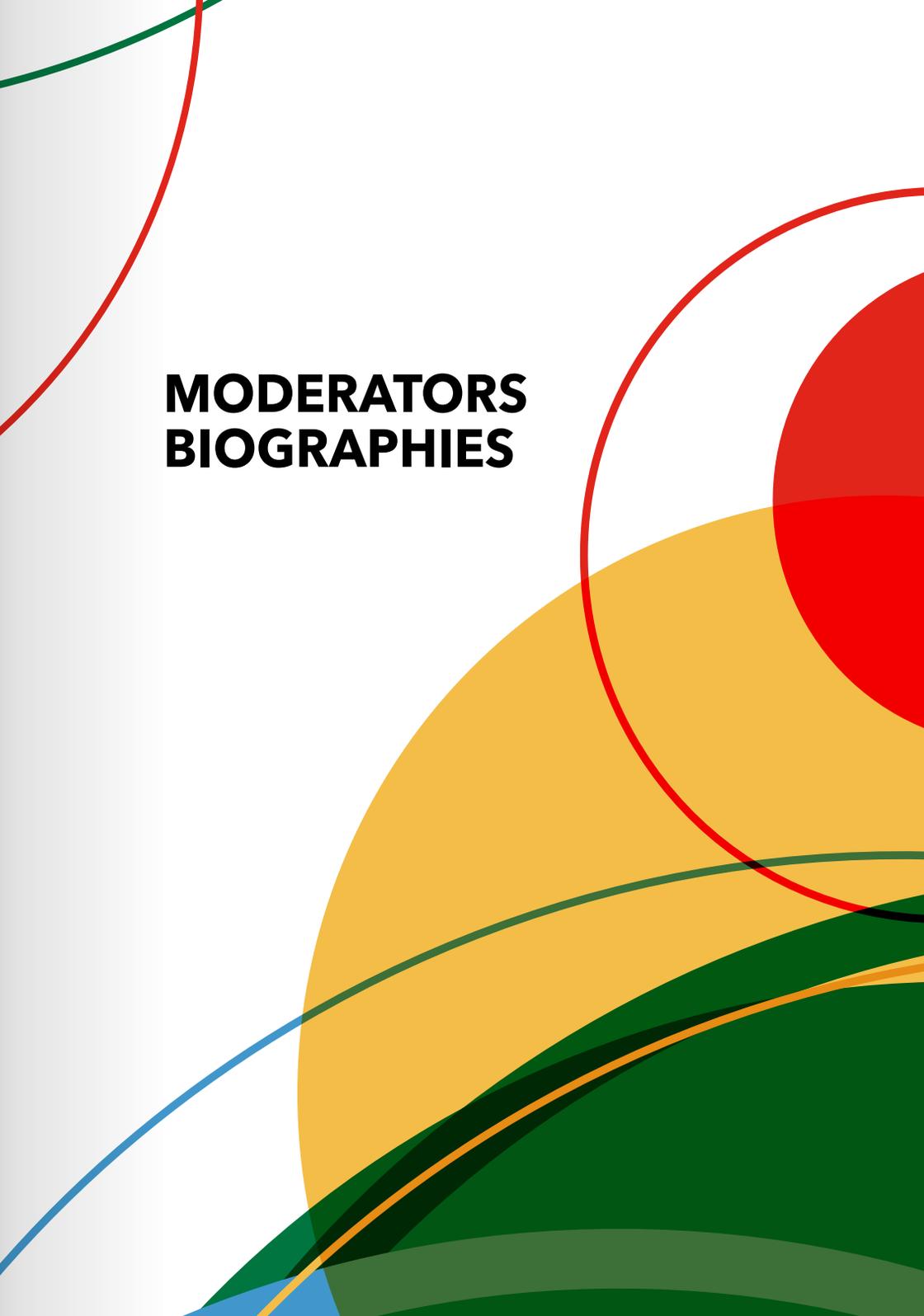
A black and white photograph of several military-style utility vehicles, including Jeeps and trucks, parked on a rocky, forested hillside. The vehicles are arranged in a line, with some on the ground and others on a rocky outcrop. The background shows a dense forest of trees under a cloudy sky.

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The image features a white background with several overlapping, semi-transparent geometric shapes and lines. A large yellow semi-circle is positioned in the lower right, partially overlapping a green semi-circle below it. A red semi-circle is located to the right of the yellow one, overlapping its edge. A blue semi-circle is at the bottom left, overlapping the green one. A thin red line curves from the top left towards the center, and a thin green line curves from the top left towards the right. The text 'MODERATORS BIOGRAPHIES' is centered in the upper left quadrant.

**MODERATORS
BIOGRAPHIES**

MODERATORS BIOGRAPHIES



MATTHEW COCHRAN

Chairman/CEO
Defense Services Marketing Council

Mr. Matthew Cochran is an entrepreneur and seasoned executive-level leader, equipped with more than 20+ years of global experience in creating value in startups and propelling divisions of multibillion-dollar enterprises to growth in sales and market share. His offices have been based out of Dubai, UAE since 2003. Mr. Cochran serves as the CEO of the Defense Services Marketing Council (DSMC). DSMC is a marketing incubator organization that accelerates international Defense, Space & Security industry related companies growth and serves as a collaborative organization of business development, public relations and marketing executives who represent industry related companies and service providers globally.

Mr. Cochran is the senior managing partner for DSMC's government and member organizations and advisory board appointments. He leads the DSMC monthly member and partner workshops to include a working group officially supported by Tawazun that brings focus and feedback to senior stakeholders on Offsets and Defense, Space and Security topics. DSMC was appointed the Strategic Consultant by the Abu Dhabi Technology Development Committee (TDC) to DITEC - The UAE's Inaugural Defence Innovation, Research and Technology Conference that brought the world's leading defense research and development center leaders from DARPA and DSTL to the UAE. DITEC was supported by The UAE Ministry of Defense as the strategic partner and officially sponsored by Tawazun, and the UAE Space Agency.

Recently Mr. Cochran moderated at the 2022 Abu Dhabi Space Debate and also at the 2023 IDEX IDC Conference in the UAE. Mr. Cochran is an effective communicator and spokesperson, he is known as a sought-after Board of Advisor for various organizations globally and is a leading keynote speaker and top expert in his field, experienced on a wide range of topics to include but not limited to the UAE Aviation and Space sectors, Middle East Industry, International Trade, R&D, Technology Start-Ups and Defense, Space and Security Industry as well as Offset and Economic Development trends. He has received advanced Executive Education Certificates from Harvard Kennedy School, Dubai School of Government and holds a B.A. degree in Political Science from The American University in Washington, D.C..

MODERATORS BIOGRAPHIES



DR. ANNA DOLIDZE

Research Lead

Rabdan Academy Professor, Georgian Institute for Public Affairs

Dr Anna Dolidze is a Lead Researcher at Rabdan Academy, UAE and a Professor of Law at the Georgian Institute for Public Affairs. Previously, she was a member of the High Council of Justice in Georgia, served as the Chief Legal Officer for the President and a Deputy Minister of Defence.

Dr. Dolidze has received a Master's Degree in Law from Leiden University and a JSD from Cornell University. Dolidze has been recognized as a Young European Leader by Atlantic Brucke and among the Women on the Barricades by the Norwegian Helsinki Committee.

MODERATORS BIOGRAPHIES



TATE NURKIN

Founder and CEO
OTH Intelligence Group, USA

Tate Nurkin is the founder of OTH Intelligence Group LLC, a company established in March 2018 to provide research, analysis, and advisory services focused on defence technology development, future military capabilities, and military and geopolitical competition.

He is a Non-Resident Senior Fellow with the Brent Scowcroft Centre for Strategy and Security at the Atlantic Council and with the Center for Strategic and Budgetary Assessments (CSBA) and a partner with One Defense, an advisory firm that helps connect high-tech start-ups and non-traditional defence suppliers with defence and national security communities.

Before establishing OTH Intelligence Group in March 2018, Mr. Nurkin spent 12 years at Jane's by IHS Markit, the global leader in the provision of open-source intelligence on defence and security issues. From 2012 until his departure in 2018 Mr. Nurkin was a member of the Jane's operational leadership team responsible for overseeing Jane's business operations.

Substantively, Mr. Nurkin's research and analysis has a particularly strong focus on the future of military capabilities and conflict, global defence industry issues, alternative futures analysis, and Indo-Pacific security. He also has 25 years of experience in the design and delivery of scenario planning exercises and wargames.

Recently published monographs / reports have included *The Five Revolutions: Examining Defence Innovation in the Indo-Pacific*; *US-Japan Technological Collaboration*; *Candle in the Dark: A US National Security Strategy for AI*, *Eye to Eye in AI: Developing Artificial Intelligence for National Security and Defence*, and *Power Projection: Accelerating Electrification of the US Military Ground Vehicles*. His analysis has also appeared in CNN, Deutsche Welle, Janes Intelligence Review, Janes Defense Weekly, Defense News, Breaking Defense, and Space News, among other publications.

Prior to his work for Jane's, he worked for the Modelling, Simulation, Wargaming and Analysis Group of Booz Allen Hamilton; and the Strategic Assessment Centre of Science Application International Corporation and Joint Management Services, a small firm based in Atlanta, GA that assesses defence technology development and geopolitical competitions. He holds a Master of Science in International Affairs from the Sam Nunn School of international affairs at Georgia Tech (1999) and a Bachelor of Arts in history and political science from Duke University (1994).

MODERATORS BIOGRAPHIES



NAOUFER RAMOUL

Senior TV Presenter
Dubai Media Incorporated

Naoufer is well known media figure in the Arab region. She joined Dubai Television in 2010 as a host and producer of the weekly political show “Qabel lil Niqash (Open for Discussion)”, which won the prize of the best Talk-show at the Arab Radio and TV Festival in 2016, 2018 and 2019 organized by the Arab States Broadcasting Union (ASBU). She also produce and present “Expo Yajma’ona” (Expo Brings Us Together), a show that hosts influential Personalities to discover the pavilion of their countries at Expo 2020.

During her career, Naoufer has worked as a writer, reporter and presenter at some of the most prestigious news channels in the Arab world, including Al Jazeera, Al Arabia and Alhurra. Prior to that, she worked as a Radio and TV Presenter in the Tunisian Radio and Television for 10 years.

Naoufer has a Master’s degree in Management and Accountancy Sciences. She has taught Management and economics in Tunisia before concentrating on her media career.

Naoufer fluently speaks Arabic, French and English.



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JUMA ABDULLA ALHAJ ALALI

Initially a communications professional, Juma Alhaj is currently a Senior Analyst at Tawazun Economic Council's Strategic planning department. His specialty lies in international sector analysis and strategy. Prior to commencing this role Juma was engaged in strategic Stakeholder relations and strategic internal communications. Further Juma held the position of board secretary to the Emirates Defense Companies Council, and handled International Partnership relations for the EDCC (2018-2020). Juma Holds a Bachelor's of Science in Visual Communications with a minor in International Relations from the American University of Sharjah, and a Master's of Science in International Relations from the University of Wollongong - Dubai, with a specialty in Strategic Rhetoric.

RAWDHA AL MANSOORI

Rawdha Al Mansoori currently works as a Marketing Executive at Abu Dhabi National Exhibitions Company (ADNEC). She holds a Bachelor's degree in Applied Communications from the Higher Colleges of Technology. Rawdha enjoys learning about different cultures and fascinated by Arts from different parts of the world. Additionally, her interest and passion resides in designing, developing and deploying marketing strategies using digital platforms. She is currently pursuing her Master's degree at Sorbonne University in the field of Marketing, Management, Communication and Media.





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